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Higher level of resource integration and the addition of new features in pressure on their verification. Although a large amount of resources and modern processors, ...

3 Fast and flexible application-level networking on exokernel systems

Gregory R. Ganger, Dawson R. Engler, M. Frans Kaashoek, Hector M. Brice

February 2002 **Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Publisher: ACM

Full text available: Pdf (500.67 KB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 69, Download

Application-level networking is a promising software organization for important network services. The Xok/ExOS exokernel system includes a services, while at ...

Keywords: Extensible systems, OS structure, fast servers, network ser

- 4** [Instrumenting where it hurts: an automatic concurrent debugging tec](#)
 [Rachel Tzoref, Shmuel Ur, Elad Yom-Tov](#)
July 2007 [ISSTA '07: Proceedings of the 2007 international symposium](#)
Publisher: ACM 
Full text available:  [Pdf \(1.23 MB\)](#) Additional Information: [full citation](#), [abs](#)
- Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 92, Download

As concurrent and distributive applications are becoming more common
difficult, practical tools for automatic debugging of concurrent applicatio
applied automatic debugging ...

Keywords: concurrency, debugging, feature selection

- 5** [Edgecomputing: extending enterprise applications to the edge of the](#)
 [A. Davis, J. Parikh, W. E. Weihl](#)
May 2004 [WWW Alt. '04: Proceedings of the 13th international World Wide Web conference on user interface papers & posters](#)
Publisher: ACM
Full text available:  [Pdf \(224.06 KB\)](#) Additional Information: [full citation](#), [abs](#)
- Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 79, Download

Content delivery networks have evolved beyond traditional distributed computing.
EdgeComputing it is now possible to deploy and run enterprise business computing platform, to provide ...

Keywords: Internet applications, N-tier applications, Web services, distributed computing, split-tier applications, utility computing, web applications

- 6** [DSD-Crasher: A hybrid analysis tool for bug finding](#)
 [Christoph Csallner, Yannis Smaragdakis, Tao Xie](#)
April 2008 [Transactions on Software Engineering and Methodology](#)
Publisher: ACM 
Full text available:  [Pdf \(392.92 KB\)](#) Additional Information: [full citation](#), [abs](#)
- Bibliometrics:** Downloads (6 Weeks): 40, Downloads (12 Months): 251, Download

DSD-Crasher is a bug finding tool that follows a three-step approach to
intended execution behavior with dynamic invariant detection. The deriv
from the program's input ...

Keywords: Automatic testing, bug finding, dynamic analysis, dynamic false positives, static analysis, test case generation, usability

- 7** [Fast detection of communication patterns in distributed executions](#)
[Thomas Kunz, Michiel F. H. Seuren](#)
November 1997 [CASCON '97: Proceedings of the 1997 conference of the Canadian Society for Computational Science and Engineering](#)
Publisher: IBM Press
Full text available:  [Pdf \(4.21 MB\)](#) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 363, Downl

Understanding distributed applications is a tedious and difficult task. Visualizations are often used to obtain a better understanding of the execution of the Poet, an event ...

8 Who should fix this bug?

 John Anvik, Lyndon Hiew, Gail C. Murphy

May 2006 **ICSE '06:** Proceedings of the 28th international conference on Software engineering

Publisher: ACM

Full text available:  Pdf (203.21 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 60, Downloads (12 Months): 229, Downl

Open source development projects typically support an open bug repository. Developers can report bugs. The reports that appear in this repository must be triaged to determine if they require attention and if ...

Keywords: bug report assignment, bug triage, issue tracking, machine learning

9 Scalable statistical bug isolation

 Ben Liblit, Mayur Naik, Alice X. Zheng, Alex Aiken, Michael I. Jordan

June 2005 **PLDI '05:** Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation

Publisher: ACM 

Full text available:  Pdf (180.44 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 161, Downl

We present a statistical debugging algorithm that isolates bugs in programs. Earlier statistical algorithms that focus solely on identifying predictors perform poorly when there ...

Keywords: bug isolation, feature selection, invariants, random sampling

Also published in:

June 2005 **SIGPLAN Notices** Volume 40 Issue 6

10 GPGPU: general purpose computation on graphics hardware

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, James F. Humphreys

August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes

Publisher: ACM 

Full text available:  Pdf (63.03 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 255, Downloads (12 Months): 1580, Downl

The graphics processor (GPU) on today's commodity video cards has evolved. The GPU is a general-purpose processor. The latest graphics architectures provide tremendous memory bandwidth and fully programmable vertex ...

11 AppleScript

 William R. Cook

June 2007 **HOPL III**: Proceedings of the third ACM SIGPLAN conference

Publisher: ACM 

Full text available:  [Mpeg](#) (55:56 MIN),  [Pdf](#) (621.56 KB) Additional Information: [full citation](#), [abs](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 226, Downloaded (6 Weeks): 12, Downloaded (12 Months): 100

AppleScript is a scripting language and environment for the Mac OS. Or
end users to *automate* complex tasks and *customize* Mac OS applications.
standard ...

Keywords: AppleScript, history, scripting

12 Finding bugs is easy

 David Hovemeyer, William Pugh

December 2004 **SIGPLAN Notices**, Volume 39 Issue 12

Publisher: ACM

Full text available:  [Pdf](#) (506.92 KB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 241, Downloaded (6 Weeks): 12, Downloaded (12 Months): 100

Many techniques have been developed over the years to automatically f
rely on formal methods and sophisticated program analysis. While these
to apply, and they ...

13 ASSURE: automatic software self-healing using rescue points

 Stelios Sidiropoulos, Oren Laadan, Carlos Perez, Nicolas Viennot, Jason Nieh,

February 2009 **ASPLOS '09**: Proceeding of the 14th international conference on
languages and operating systems

Publisher: ACM 

Full text available:  [Pdf](#) (641.80 KB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 272, Downloaded (6 Weeks): 12, Downloaded (12 Months): 100

Software failures in server applications are a significant problem for pre
ASSURE, a system that introduces rescue points that recover software f
system integrity and availability, ...

Keywords: binary patching, checkpoint restart, error recovery, reliable :
Also published in:

February 2009 **SIGPLAN Notices** Volume 44 Issue 3

14 Anomaly-based bug prediction, isolation, and validation: an automati

 Martin Dimitrov, Huiyang Zhou

February 2009 **ASPLOS '09**: Proceeding of the 14th international conference on
languages and operating systems

Publisher: ACM 

Full text available:  [Pdf](#) (600.20 KB) Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 158, Downloaded (6 Weeks): 12, Downloaded (12 Months): 100

Software defects, commonly known as bugs, present a serious challenge. Once a program failure is observed, the debugging activities to locate the defect can be time consuming. In this paper, ...

Keywords: architectural support, automated debugging

Also published in:

February 2009 **SIGPLAN Notices** Volume 44 Issue 3

15 Automatically patching errors in deployed software

 Jeff H. Perkins, Sunghun Kim, Sam Larsen, Saman Amarasinghe, Jonathan Frank Sherwood, Stelios Sidiropoulos, Greg Sullivan, Weng-Fai Wong, Yoav Z October 2009 **SOSP '09**: Proceedings of the ACM SIGOPS 22nd symposium

Publisher: ACM 

Full text available:  Pdf (471.33 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 18, Downloaded 0 times

We present ClearView, a system for automatically patching errors in deployed Windows x86 binaries without any need for source code, debugging info or human intervention. ...

Keywords: self healing

16 Impala: a middleware system for managing autonomic, parallel sensor networks

 Ting Liu, Margaret Martonosi June 2003 **PPoPP '03**: Proceedings of the ninth ACM SIGPLAN symposium on parallel programming

Publisher: ACM 

Full text available:  Pdf (684.33 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 126, Downloaded 0 times

Sensor networks are long-running computer systems with many sensors that collect information about their environment, process and fuse that information, and then take mechanisms in response. Like traditional parallel ...

Keywords: middleware system, sensor networks, software adaptation, self-healing

Also published in:

October 2003 **SIGPLAN Notices** Volume 38 Issue 10

17 A survey of linguistic structures for application-level fault tolerance

 Vincenzo De Florio, Chris Blondia April 2008 **Computing Surveys (CSUR)**, Volume 40 Issue 2

Publisher: ACM 

Full text available:  Pdf (2.23 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 494, Downloaded 0 times

Structures for the expression of fault-tolerance provisions in application article. Structuring techniques answer questions as to how to incorporate computer program ...

Keywords: Language support for software-implemented fault tolerance separation of design concerns, software fault tolerance

18 Shield: vulnerability-driven network filters for preventing known vulne

 Helen J. Wang, Chuanxiong Guo, Daniel R. Simon, Alf Zugenmaier
August 2004 **SIGCOMM '04**: Proceedings of the 2004 conference on Application protocols for computer communications

Publisher: ACM 

Full text available:  Pdf (242.89 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 135, Downloaded by 1 user

Software patching has not been effective as a first-line defense against known vulnerabilities because patches have long been available for their corresponding vulnerabilities. General systems immediately, ...

Keywords: generic protocol analyzer, network filter, patching, vulnerability

Also published in:

August 2004 **SIGCOMM Computer Communication Review** Volume 34 Issue 4

19 Identifying bug signatures using discriminative graph mining

 Hong Cheng, David Le, Yang Zhou, Xiaoyin Wang, Xifeng Yan
July 2009 **ISSTA '09**: Proceedings of the eighteenth international symposium

Publisher: ACM 

Full text available:  Pdf (582.47 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 58, Downloaded by 1 user

Bug localization has attracted a lot of attention recently. Most existing methods try to find a statement or function call which is very likely to contain bugs. Although this is usually very hard for ...

Keywords: bug signature, discriminative subgraph mining

20 Cookies: A deployment study and the testing implications

 Andrew E. Tappendren, James Miller
June 2009 **Transactions on the Web (TWEB)**, Volume 3 Issue 3

Publisher: ACM 

Full text available:  Pdf (2.25 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 192, Downloaded by 1 user

The results of an extensive investigation of cookie deployment amongst different web sites is found to be approaching universal levels and hence there is a need for better cookie management in web and software engineering ...

Keywords: Cookies, Internet browser, Web engineering, Web technolo

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